

# Curriculum Vitae

## Basic Information

**Name:** Chuan Lin

**Gender:** Male

**Nationality:** China

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## Education Background

*September 2008- September 2009*

Joint-training Ph. D. student

National University of Singapore

*September 2003-December 2009*

Master and Ph. D. (Communication and Information System)

Southwest Jiaotong University

*September 1999 – July 2003*

Bachelor (Automation)

Southwest Jiaotong University

## work experience

*November 2015-Now*

Visiting Scholar

The Graduate Center, City University of New York

*September 2014-Now*

Associate Professor

Center for Information in BioMedicine, University of Electronic Science and  
Technology of China

*May 2013-Now*

Associate Professor

School of Physical Electronics, University of Electronic Science and Technology  
of China

*April 2010- April 2013*

Senior Engineer

SWIEE Group Corporation

## Research Interests

- ◆ Computational Intelligence
- ◆ Adaptive Signal Processing

- ◆ Biomedical Imaging
- ◆ Microwave Imaging
- ◆ Compressed Sensing
- ◆ Antenna Array

## Teaching

- ◆ College Physics
- ◆ Circuit Analysis
- ◆ Analog Circuit
- ◆ Digital Circuit

## Publish List As First Author

- [1] C. Lin, A. Qing, and J. Zang, A fast algebraic reconstruction method for inverse problem, 2015 IEEE International Symposium on Antennas and Propagation and North American Radio Science Meeting, 19-24 July 2015, Vancouver, BC, Canada, pp. 912-913
- [2] C. Lin, A. Qing, and J. Zang, Extended Kaczmarz algorithm with projection adjustment, 2015 IEEE MTT-S International Conference on Numerical Electromagnetic and Multiphysics Modeling and Optimization for RF, Microwave, and Terahertz Applications, Aug. 11-14, 2015, Ottawa, Canada, accepted
- [3] C. Lin, A. Qing, and J. Zang, Design of wideband multilayer planar absorber using a new differential evolution algorithm, Proceedings of SPIE, Vol. 9521, 952117-1 ~ 952117-7, 2014
- [4] C. Lin, A. Qing, and Q. Feng, A new differential mutation base generator for differential evolution, J. Global Optimization, vol. 49, no. 1, pp. 69-90, 2011
- [5] C. Lin, A. Qing, and Q. Feng, A comparative study of crossover in differential evolution, Journal of Heuristics, vol. 17, no. 6, pp. 675-703, 2011
- [6] C. Lin, A. Qing, and Q. Feng, Synthesis of unequally spaced antenna arrays by using new differential evolution algorithm, IEEE Trans. Antennas and Propagation, vol. 58, no. 8, pp. 2553-2561, 2010
- [7] C. Lin, A. Qing, and Q. Feng, Synthesis of unequally spaced antenna arrays by a new differential evolutionary algorithm, *Int. J. Communication networks Information Security*, vol. 1, no. 1, pp. 20-25, April 2009
- [8] C. Lin, A. Qing, and Q. Feng, Position-only synthesis of antenna arrays using effectively informed Gaussian particle swarm algorithm, *Asia-Pacific Microwave Conf.*, Singapore, 7-10 Dec. 2009, vols 1-5, 2645-2648
- [9] C. Lin, Q. Feng. The standard particle swarm optimization algorithm convergence analysis and parameter selection. *Int. Conf. Natural Computation*, Haikou, China, Aug. 24-27, 2007, vol. 3, 823-826
- [10] C. Lin, Q. Feng, A hierarchical subpopulation particle swarm optimization algorithm, *2007 Intelligent Systems and Knowledge Engineering*, Chengdu, Oct. 15-16, 2007, doi: 10.2991/iske.2007.195, pp: 1487-1491
- [11] C. Lin, Q. Feng. Design of current limiting circuit in low dropout linear voltage regulator, *Asia-Pacific Micromave Conf.*, 4-7 Dec. 2005, vol. 2, 865-868

- [12] C. Lin, X. Ji and L. Fu, Real-time high-precision frequency measurement method based on spectrum correction and pulse integration, *Electronic Warfare*, 2012, vol. 4, 16-21 (in Chinese)
- [13] C. Lin, Q. Feng, Variable Order Algorithm for Adaptive Lattice RLS Filter, *Signal Processing*, 2010, 26(2), 298-302 (in Chinese)
- [14] C. Lin, Q. Feng, Combined adaptive filtering algorithm based on the principle of particle swarm optimization, *Journal of Electronics & Information Technology*, 2009, 31(5): 1245-1248 (in Chinese)
- [15] C. Lin, Q. Feng, Information sharing strategies for the particle swarm optimization algorithm, *Journal of Southwest Jiaotong University*, 2009, 44(3): 437-441 (in Chinese)
- [16] C. Lin, Q. Feng, Variable Tap-Length LMS Adaptive Filtering Algorithm, *Journal of Electronics & Information Technology*, 2008, 30(7): 1676-1679 (in Chinese)
- [17] C. Lin, Q. Feng, **New adaptive particle swarm optimization algorithm**, *Computer Engineering*, 2008, 34(7): 181-183 (in Chinese)
- [18] C. Lin, Q. Feng, The effectively informed particle swarm optimization algorithm, *Journal of Harbin Engineering University*, 2008, 29 (11): 1227-1231 (in Chinese)
- [19] C. Lin, Q. Feng, Design of an overcurrent protection circuit in low dropout linear voltage regulator, *Journal of Circuits and Systems*, 2008, (25):30-33 (in Chinese)
- [20] C. Lin, Q. Feng, Fuzzy step size LMS algorithm and its performance analysis, *System Engineering and Electronics*, 2007, 29(6): 967-970 (in Chinese)
- [21] C. Lin, Q. Feng, Chaotic particle swarm optimization algorithm based on the essence of particle swarm, *Journal of Southwest Jiaotong University*, 2007, 42 (6): 665-669 (in Chinese)
- [22] C. Lin, Q. Feng. Convergence analysis and parameter selection of standard particle swarm optimization algorithm. *National Ph. D Student Academic Forum on Control Science and Engineering*, 2007, pp: 1487-1491 (in Chinese)
- [23] C. Lin, Q. Feng. Information sharing strategy for particle swarm optimization algorithm. *National Ph. D Student Academic Forum on Control Science and Engineering*, 2007, pp: 680-685 (in Chinese)

## **Publish List As Co-author**

- [1] Zang, J.-F., C. Lin, and A.-Y. Qing. Design of multipass frequency selective surface, *Proceedings of SPIE*, Vol. 9521, 952118-1 ~ 952118-6, 2014
- [2] Q. Wang, C. Lin, Variable step size LMS algorithm based on two cooperative adaptive filters, *Int. Conf. Computational Materials Science (CMS)*, in: *Advanced Materials Research*, vol. 268-270, pp.1168-1172, 2011
- [3] LI Qi, CHEN Wei-rong, LIU Shu-kui, **LIN Chuan**, JIA Jun-bo, Mechanism Modeling of Proton Exchange Membrane Fuel Cell Based on Adaptive Focusing Particle Swarm Optimization, *Proceedings of the CSEE*, 2009, 29(20): 119-124 (in Chinese)
- [4] LI Qi, CHEN Wei-rong, LIU Shu-kui, **LIN Chuan**, JIA Jun-bo, Proton Exchange Membrane Fuel Cell Air Supply System Design Based on  $H^\infty$  Robust Control, *Proceedings of the CSEE*, 2009, 29(5): 109-116 (in Chinese)
- [5] LIU Shu-kui, CHEN Wei-rong, LI Qi, **LIN Chuan**, DUAN Tao, Reactive power optimization in power system based on adaptive focusing particle swarm optimization, *Power System Protection and Control*, 2009, 37(13): 1-6 (in Chinese)

- [6] LIU Shukui, LI Qi, CHEN Weirong, **LIN Chuan**, ZHENG Yongkang, Multiobjective reactive power optimization based on modified particle swarm optimization algorithm, *Electric Power Automation Equipment*, 2009, 29(11): 31-36 (in Chinese)
- [7] WANG Weibo, **LIN Chuan**, ZHENG Yongkang, Experiment and Analysis of Parameters in Particle Swarm Optimization, *Journal of Xihua University(Natural Science)*, 2008, 27(1): 76-80 (in Chinese)

## **Patents**

- [1] **Lin Chuan**, An effective real-time high-precision frequency measurement method for correlated pulse signal, 2014, China invention patent: 201410569470.X